#### APPENDIX A

### PLANTS FOR THE PRODUCTION OF SYMPHETIC AND RECLAIMED RUBBER

#### A. Synthetic Rubber

All known synthetic rubber plants in areas of the Free World are listed, with production by plant if known.

In such countries as Sweden and Italy, where plant facilities exist for the production of synthetic rubber but where no rubber is presently being produced, especities as known are given.

For the United States, it is noted that feed stock plants (plants which produce styrene or butadiene for final processing by co-polymer plants) are also listed. As can be seen by this list, all the styrene used as feed stock is made in only six plants, and destruction of any one of these plants would reduce by that much the output of GR-S (butadiene-styrens rubber) until the unit could be restored to production. Butyl rubber, important for manufacture of inner tubes, is produced in only two plants, and neoprene in but one plant. Thus styrene, butyl, and resprene, all of which are highly important to the rubber industry of the United States, appear to be the most vulnerable points in the synthetic rubber industry.

#### B. Reclaimed Rubber

Locations and names of installations for the reclaiming of rubber are given, where known, for all countries. Information on such facilities is not regularly reported, and cannot be considered for certain countries (for example, France) which reportedly has considerable capacity for reclaimed rubber, but for which no data on locations of plants or actual output are available.

Reclaimed rubber is a very valuable raw material and serves as an important factor in enabling countries to increase rubber fabrication at relatively small cost in comparison to synthetic and natural rubber. The facilities for reclaiming are not difficult or expensive to provide and production can be increased or decreased as desired with relative case.

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# APPENDIX A.

### SYNTIATIC RUBBER PLANTS IN THE FREE WORLD AREA DURING 1951

Location	Name of Plant	Dusien Capacity <sup>a</sup> Pr (in long tons)	oduction b/
NORTH AMERICA		, a	907,448
CANADA			62,293
Sarnia, Octario	Polymor Corporation	40	62,293
UNITED STATES	+		845.155
Corolyper plants (GR	S and N)		
Akren, Chio	Firestone Tire & Rubber Co. *Firestone *Goodrich *Goodycar	25,000 2,000 9,000 9,000	
Batos Rouge, La.	Goodynar Synthetic Rubber Cox Copolymer Coxp. "U.S. Rubber Co.	rp。	
Bayton, Towns	General Tire & Rubber Co.	7,000 37,000	
Boston, Macs. Borger, Texas. Houston, Toxas. Institute, N. Va Louisville, Ky.	*Dawy & Almy Phillips Chemical Co. Goodyear Synthetic Rubber Com B.F. Goodrich Chamical Co. *B.F. Goodrich Co.	113,000	
Labe Charles, La. Midland, Mich. Naugatuck, Conn. Port Noches, Toxas	Equivally Synthetic Rubber Cor Firestone Tire & Rubber Co. Des Chemical Co. U.S. Rubber Co. B.F. Goodrich Co.	15,000 TP - 37,000 36,000 3,000 25,000 78,000	
Torrence, Calif.	U.S. Rubber Co. Midland Rubber Corp.	76,000 _76,000	man a sall
Neoprene plants		8 <b>08,00</b> 0	712,147
Louisville, Ky.	*E.I. DuPont de Nemours & Co.	60 <u>.000</u> 60,000	<b>58</b> ,907
Putrl_clane		·	
Baton Rouge, La. Baytowa, Texas	Esso Standard Oil Co. Emble Oil & Refining Co.	40,000)** 40,000 80,000	7 <b>4, 10</b> 5
Total, U.S.	synthetic rubber capacity	948,000	
<u>Foodstook ulants</u> (in <u>Butsdion</u> e	short tons)		
Baton Rouge, La.	*Esso Standard Oll Co. Copolymsr Corp.	20,000 22,000	
Baytown, Texas Berger, Texas Kobuta, Pa. Loke Charles, La. Louisville, Ky. Midland, Mich.	Humble Oil & Refining Co. Phillips Chemical Co. Koppers Co., The. Cities Service Refining Carbido & Carbon Chemicals Co. **Plow Chemical Co.	45,000 60,000 105,000*** 62,000	
Fort Nechos, Texas	Noches Butane Products Go. "Carbide & Carbon Chemical Corp Sinclair Rubber, Inc. Shell Chemical Corp. & Standar Otl Co. of California	168,000 p. 6,000 78,000	
	an A.≥ 2 an	753,000	683,000

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### APPENDIX A (Cont'd)

Location	Name of Plant	Design Capacity Productions)	tion <sup>b</sup>
Styrene			
Institute, W. Va. Kobuta, Pa. Midland, Mich. Texas City, Texas Torrance, Calif. Velasco, Texas	"Carbide & Carbon Chemical Con "Koppers Co., Inc. "Dow Chemical Co. "Monsanto Chemical Co. Dow Chemical Co. "Dow Chemical Co.	Tp. 15,000 50,000 36,000 65,000 57,000 <u>200,000</u> 323,000	
Western Europe		22	2
FRANCE	Flanced	None	B
GERMANT, MEST		92	9
ala Leverkuson	Chemisalo Warko Huols Fayerworko		
TEALX	•	Home	B
Fortare Torni	Pirelli & I. R. I.	12,000 N.A.	
SAKICE		Non	3
Lugavik Stockvik Uppsala		800 800 Experimental	

a. Design capacity is given where available to show possible production.

908 377

b. Production is given to show actual output. In the U.S. information is not available as to actual production by plant.

GRAND TOTAL

c. Polymerization plants and feed stock plants are given where known. The use of oil extenders and the cold rubber process of synthetic rubber production has increased plant capacities. The polymerication capacities have been increased in the last two years, and the capacities, as shown, represent 1952 information.

d. Includes 656,814 tons OR-S and 15,333 tons N-type rubber.

\* Privately owned facilities, all copolymer plants include N and GR-S types of rubber.

## Increased to 90,000 tons capacity.

In addition, there is one unit of approximately 35,000 ST/Ir capacity in standby at this plants

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# APPENDIX A. (Cont'd) Part B.

### RECIAIMED RUBBER PIANTS IN THE FREE WORLD AREA DURING 19512

Location	Name of Plant	Design Capacity b/ (in long	Production®
NORTH AMERICA		•	372.087
CANADA			5.077
Montreal	Dominion Rubber Co.*		
* Subsidiary of U.S. Rut	ber Co. and the only importan	t producer in the o	ourtsy.
CUBA			1900 P. C.
Mantanass			<b>7</b> 7
UNITED STATES			265,913
Akron, Chie Akron, Chie New Brunswick, N.J. Naugatuck, Comm. Buffale, N.J. Trenton, N.J. Butler, N.J. E.St. Louis, Ill. Memphis, Tenn. Gadsen, Ala. Los Angeles, Calif. Tuscalcosa, Ala. Los Angeles, Calif. Erie, Pa. Chicago, Ill. Denver, Colorado Buffalo, N.Y. Barberton, Chio Fassaio, N. J. Painesville, Chio	Goodyear Tire & Rubber Co.  Kylos Rubber Gompany Laurie Rubber Reclaiming Co.  Naugatuck Chemical Co.  U.S. Rubber Reclaiming Co.  Nearpara Rubber Co.  Pequance Rubber Co.  Midwest Rubber Reclaiming Co.  Firestone Tire & Rubber Co.  Goodyear Tire & Rubber Co.  B.F. Goodrich Co.  Continental Rubber Co.  Dryden Rubber Co.  Gates Rubber Co.  Seiberling Rubber Co.  Manhattan Rubber Co.  Ohio Rubber Co.		
SOUTH AMERICA			5.073
ARGENT INA	,		1,000
Buenos Aires	Goodyear Naumaticos SA	1,,350	
	. small rubber goods manufacture of reclaimed rubber,	rers who produce	
BRAZIL			2,862
Santo Andre Hao Paulo	Industria de Preumaticos Fir Cia Goodyear do Brasil	estons SA	
CHILE			2,2
Santiago	Industria National de Pneu (	INSA)	
COLOMBIA			
Cali	Cia Croydan del Pacifico SA		NoA o
	con flooling to		
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# Approved For Release 1999/09/21 : CIA-RDP79S01100A000200010003-5 S E G R E T

# APPENDIX A. (Cont'd)

location .	Name of Plant	Design Canacity <sup>a</sup> (in lor	Production <sup>b</sup> /
COSTA RICA			<u>6.7</u>
GUATEMIA		·	20
Guatemala City	Cia Guatemalteca Incatecu SA		
AGRU	,		18
Lima	Fabrica de Calsado Peruano SA (Bata)		18
URUGUAY	•		<u>164</u>
Montevideo	(FUNSA) Fabrica Uruguayo de	<b>3</b> 50	
Montevideo	Neumaticos SA Radesca y Cia	н.А.	
FAR EAST and SOUTH PACIFIE	1		23,988
A USTRAL JA			8,606
Brisbane Melbourne Sydney Sydney	Clympic Tire & Rubber Co., L¢ Kenworth Rubber Ltd. Duckep Rubber (Aust.) Ktd. Soudgeer Size & Robber Co. (A		
INDIA			4,20
Pombay Galcusa Galcuta	Firestone Tire & Rubber Co. o Beta Shoe Company Dumlop Rubber Co. (India)	f Endia Led.	
JAPAN		·	11.982
Kobe Kobe Yokohema	Dunlop Rubber Co. (Japan) Ltd Nippon Tire Co. Yokohama Rubber Co.	, <b>(b</b>	
NEW ZEALAND			1,200
Auckland Christchurch (Upper Hutt)	Reid Rubber Tire Factory Atlas Rubber Co. Firestone Tire & Rubber Co. Dunlop Rubber Co.		
EUROPE including ENGLAND			<u>86,821</u>
<u>A USTRIA</u>			1,256
Wimpassing ) Semperit	<b>L</b>		1,480.8 475.2
BELGIUM		*	2,500
Antwerp Molines Seneffe	Wauters Caoutchouc Recupers SA Caoutchouc & Ebonits		· Ŧ ·
DENMARK			300
Copenhagen Copenhagen	Schinning & Arve Danske Galoche & Gummifabrik		
	A t*		

# APPENDIX A. (Cont'd)

	• 4 4		
Location	Name of Plant	Design Capacity d/	Production tons)
FINLAND			231.5
Nokia .	Soumen Gummitehdas Oy		331.5
FRANCE	4 =		N.A.
Colombes	Watteles Regenere		
GERMANY, WEST			27,355
Hemburg-Harburg	Harburger Gummiwaren-Fabrik		3,600
Eamburg	Phoenix AG. Deutsches Gummi-Regenerierwe	rk	
Melle—Hannover Mannheim—Rheinau Hannover Hannover Hanau—Main	Wolfang Krohn & Co. Moles K.G. Carl Boesch Rhein-Chemi GmbH Continental Gummiwerke AG. Vorwerk & Sohn Dunlep Rubber Co.		
GRISECIE	•	•	N.A.
Athens	Aristovoulos Pentsetakis		
<u>TTALY</u>			2.500
Milano Torino	Pirelli Pirelli	* *	
NETHERLANDS			1.600
Hague Haarlem	N.V. Nederlandse B.F. Goedric N.V. Rubber, Asbest-en Ebeni		
NORWAI <sup>d</sup>			<b>500</b>
PAKISTAN			100
Karachi	Bata Shoe Company		32
PORTUGAL			300
Oporto	Manufacture Nacional de Borre SARL (MABCR)	ncha,	
SPA IN			10.000
Aso Bilbao Barcelona Torrelavega	Barakaldo Firestone Hisrania J. Codina Villalonga, Fabrica Regenerado Comas y Amiantos Continental Rubber Co.	a de Caucho	
SWEDEN			2,500
Norkoping Trelleberg	Goodyear Tire & Rubber Co. (1 Tellebergs Gummifabriks	planned)	

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### APPENDIX A. (Cont'd)

Location	Name of Plant	Design Capacitys/ (in long	Production bottons)
SWITTZGRUAND			150
Altdorf (URI)	Doestwizler		•
UNITED KINGDOM			<b>36.729</b>
Birmingham Leyland London Wolverhampton	Dunlop Rubber Ltd. British Tire & Rubber Co. (GRubber Improving Co. Goodyear Tire & Rubber Co.	oodrich)	
YUDOSLAVIA			N.A.
AFRICA			N.A.
SOUTH AFRICA			N .A .
	AND TOTAL		<u> 186,969</u>

a. This list of plants producing reslaimed rubber is far from complete. It is noted, however, that most large tire manufacturers also have facilities for reclaiming rubber. The importance of reclaimed rubber production has been greatly ignored in reports assumesing the raw material supply of the rubber industry, and information on such facilities is meagre-

supply of the rubber industry, and information on such facilities is meagre.

b. Capacity figure of plants and/or of the entire country are given where available.

c. Production of reclaimed rubber by country (and by plant when available) are given.

d. An additional plant with 1,200 tons p.a. capacity was planned for completion by the end of 1951.

e. There are reported to be 15 factories reclaiming rubber in Alicante alone.

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